

What is claimed is:

1. A communications device connected to a network with an address modification device, comprising:

5 a transmitting and receiving unit transmitting and receiving communications data; and

a source address modification unit modifying a source address of data in response to communications data with an address modified by the address
10 modification device, to an original destination address of the communications data.

2. A communications device connected to a network with an address modification device, comprising:

15 a transmitting and receiving unit transmitting and receiving communications data;

an acquisition unit obtaining address modification information transmitted from the address modification device; and

20 a source address modification unit modifying a source address of data in response to the communications data with an address modified by the address modification device based on the address modification information.

25

3. A communications device connected to a network with an address modification device, comprising:

a transmitting and receiving unit transmitting and receiving communications data;

5 a request unit requesting the address modification device to transmit address modification information of the communications data; and

a source address modification unit modifying a source address of response data based on modification
10 information transmitted from the address modification device.

4. The communications device according to claim 1, further comprising:

15 a plurality of communications processing units; and

a sorting unit assigning a process to the relevant communications processing unit of the plurality of communications processing units based on
20 identification information added to the communications data.

5. The communications device according to claim 4, wherein said sorting unit assigns a process to the
25 relevant communications processing unit of the

plurality of communications processing units based on information designated by a communications port included in the communications data.

- 5 6. An address modification device, comprising:
a transmitting and receiving unit transmitting
and receiving communications data;
a destination address modification unit modifying
a destination address of the communications data
10 transmitted from a communications device; and
a modification information generating unit
enabling to transmit address modification information
to a communications device with a modified address.
- 15 7. An address modification device, comprising:
a transmitting and receiving unit transmitting
and receiving communications data;
a destination address modification unit modifying
a destination address of transmission data transmitted
20 from a communications device; and
a modification information generating unit
enabling to transmit address modification information
of the communications data to the relevant
communications device when receiving a send request for
25 the address modification information.

8. The address modification device according to claim 6, wherein

5 said destination address modification unit modifies the destination address of the communications data transmitted from a communications device connected to a network and

10 said modification information generating unit transmits information indicating the destination address before modification as modification information.

9. The address modification device according to claim 6, wherein

15 said modification information generating unit adds information indicating the destination address before modification to a data section of the communications data and transmits the data.

20 10. A communications method in a network comprised of an address modification device and a plurality of communications devices, comprising;

25 modifying a source address of response data to transmission data with an address modified by the address modification device to an original destination

address of the transmission data and transmitting the response data.

11. A communications method in a network comprised of
5 an address modification device and a plurality of communications devices, comprising:

requesting the address modification device to
transmit address modification information; and

- receiving the address modification information
10 from the address modification device and modifying a source address of data in response to communications data with an address modified by the address modification device base on the address modification information.

15

12. A communications method in a network comprised of an address modification device and a plurality of communications devices, comprising:

- transmitting and receiving communications data
20 and obtaining address modification information transmitted from the address modification device; and

- modifying a source address of response data to the communications data with an address modified by the address modification device based on the modification
25 information and transmitting the response data.

13. A computer-readable communications control program performing control of communications in a network comprised of an address modification device and
 5 a plurality of communications devices to enable a computer to implement functions, the functions comprising:

transmitting and receiving communications data;
 and

10 modifying a source address of response data to communications data with an address modified by the address modification device and transmitting the data.

14. A computer-readable communications control
 15 program for performing control of communications in a network comprised of an address modification device and a plurality of communications devices to enable a computer to implement functions, the functions comprising:

20 transmitting and receiving communications data;
 requesting the address modification device to transmit address modification information; and

modifying a source address of response data based on modification information transmitted from the
 25 address modification device.

15. A computer-readable storage medium which stores a program for enabling a computer to implement functions, the functions comprising:

5 transmitting and receiving communications data;
and

modifying a source address of response data to communications data with an address modified by the address modification device and transmitting the
10 response data.

16. A communications system in which an address modification device for modifying an address of communications data received from another
15 communications device and a plurality of communications devices for transmitting and receiving data in response to the communications data with a modified address are connected through a network, comprising:

an address modification device, further
20 comprising:

transmitting and receiving communications data; and

a destination address modification unit modifying an address of the communications data, and
25 each of a plurality of communications devices,

further comprising:

transmitting and receiving communications data; and

5 a source address modification unit
 5 modifying a source address of response data to the
 communications data with an address modified by the
 address modification device to an original destination
 address of the communications data.

10 17. A communications system in which an address
 modification device for modifying an address of
 communications data received from another
 communications device and a plurality of communications
 15 devices for transmitting and receiving data in response
 to the communications data with a modified address are
 connected through a network, comprising:

address modification device, comprising:

a transmitting and receiving unit
 transmitting and receiving communications data;

20 a destination address modification unit
 modifying an address of the communications data; and

a modification information generating unit
 generating and transmitting address modification
 information, and

25 each of a plurality of communications devices,

comprising:

a transmitting and receiving unit
transmitting and receiving communications data;

an acquisition unit obtaining modification
5 information transmitted from the address modification
device; and

a source address modification unit
modifying a source address of response data to the
communications data with an address modified by the
10 address modification device based on the address
modification information.